

## CLAIMS (TI-35536)

What is claimed is:

1. A method of estimating motion vectors for downsampled blocks, comprising:
  - (a) providing a first plurality of motion vectors and a second plurality of corresponding DCT blocks;
  - (b) for each of said motion vectors computing a magnitude for said corresponding DCT block(s); and
  - (c) estimating a motion vector corresponding to a downsampling of said DCT blocks by scaling the one of said motion vectors which has a minimum magnitude for corresponding DCT block(s) in step (b).
2. The method of claim 1, wherein:
  - (a) each of said motion vectors corresponds to a 2x2 array of 8x8 DCT blocks; and
  - (b) said magnitude of step (b) of claim 1 is the sum of squares of the elements of said four 8x8 DCT blocks.
3. The method of claim 2, wherein:
  - (a) said 8x8 DCT blocks are the discrete cosine transforms of luminance prediction error blocks.